

## ABSTRACT OF THE DISCLOSURE

The present invention relates to a chemical milling solution and a chemical milling process for removing a desired depth of material from metal parts. The milling solution contains nitric acid, hydrofluoric acid, a wetting agent, such as a surfactant, dissolved titanium, and the balance water. The solution is maintained at a temperature in the range of from about 110°F to about 130°F. The metal part to be milled is immersed in the milling solution for a time sufficient to remove a desired depth of material from at least one surface of the part.